

Technical Data

FGP HyperFLEX

100% Solids Epoxy Coating

Physical Properties

DESCRIPTION

Floorguard® FGP-HyperFLEX is a 100% solids, epoxy resin coating designed to provide superior flexibility, at rapid cure rates. Its outstanding bonding and flexibility properties makes **FGP-HyperFLEX** ideal for the following applications: wooden floors, deck membranes, joint sealing, crack bridging, flexible grouts and overlays. When a one day system is required, HyperFLEX is the answer!

ADVANTAGES

- **High Elongation**
- **Fast Cure, even at low temps**
- **High Hardness**
- **High Tensile & Tear Strength**

CONSIDERATIONS

- **Avoid applications on surfaces without effective vapor barriers.**
- **Surfaces must be sound and without contaminants**
- **Application Temperature 45-90°F with relative humidity below 85%**

Chemical Resistance

Reagent	Rating
Acetic Acid-5%	L
Xylene	L
Mek	L
Urea	R
Gasoline	R
50% Sodium Hydroxide	R
Bleach	L
Skydrol	R
20% Sulfuric Acid	R
15% Hydrochloric Acid	R
10% Nitric Acid	R
Ethylene Glycol	R

Solids by Weight	100%
Solids Content, %vol	100%
VOC	Nearly zero pounds per gallon
Colors	Clear or Pigmented. See Floorguard Products® Color Chart
Recommended Film Thickness	16 mils as a flexible membrane
Coverage per Gallon	90 sq.ft. @ 18 mil, 140 sq.ft. @ 11 mils (basecoats for flake systems)
Packaging Information	2 gallon and 10 gallon kits
Mix ratio	1 part A to 1 part B by Volume
Abrasion Resistance	Taber abrasor CS-17 calibrase wheel with 1000g total load & 500 cycles= 36 mg loss
Shelf Life	1 year in unopened containers
Impact	Gardner Impact, direct & reverse= 50 in./lb. (passed)
High Gloss, 60°F	60-90@ Erichsen Glossmeter
Tensile Elongation	150% @ ASTM D-638
Adhesion	400 psi @elcometer (concrete failure, no delamination)
Viscosity	Mixed=1,800 cps (typical)
DOT Classifications	Part A: "not regulated" Part B: "CORROSIVE LIQUID N.O.S., 8, UN2735, PGIII
Hardness	Shore D=80
Tear Strength(lb/in)	236 @ ASTM D-624
Tensile Strength	2,450 psi @ ASTM D-638

Cure Schedule: (75°F)

Pot Life	15-20 Min.
Gel Time	10 Minutes
Recoat or topcoat	2 Hours
Light foot traffic	2-3 Hours
Full Cure (Heavy Traffic)	5 Days

R-Recommended for continuous service
L-Limited recommendation, occasional spills

Limitations

- Colors or gloss may be affected by high humidity, low temperatures, chemical exposure, or exposure to lighting such as sodium vapor lights.
- For best results use a 3/4" nap roller
- Slab on grade requires moisture barrier
- Substrate temperature must be 5°F above dew point
- All new concrete must be cured for at least 30 days
- Physical properties are typical values and not specifications
- Tire contact may cause staining or discoloration (long term parked vehicles)
- Colors may vary from batch to batch, therefore use only product from the same batch for an entire job.

MIXING AND APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION: Preparation methods may vary depending on the system being applied. For a complete system thickness that is higher than 10 mils dry, a fine brush blast (shot blast), is recommended. To assure a trouble free bond, all dust, oil, dirt, foreign contaminants and laitance must be removed. It is recommended to perform a moisture test to determine that the concrete has an appropriate vapor barrier. This can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. Once 24 hours has passed, and the substrate is still dry below the plastic sheet, then the substrate does not show signs of eventual hydrostatic pressure problems that may later cause disbonding. This test does not guarantee, however, that there may not be future hydrostatic pressure issues in the future.

PRODUCT STORAGE: Product must be stored in an area that will bring the product to room temperature prior to using. Continuous storage should be between 60 and 90 degree F. Keep from freezing

PRODUCT MIXING: This product has a one to one mix ratio by volume—merely mix 1 gallon of part A with 1 gallon of part B. After the two parts are combined, mix well with slow speed mixing equipment until the material is thoroughly mixed and streak free. Avoid whipping air into the coating. Improper mixing may result in product failure. When pigmenting the product (ex. making a 2 gallon batch), pour 1 gallon of Part B into a measuring/mixing bucket, then add the desired amount of pigment into the Part B and mix until blended. Then add the part A up to the 2 gallon mark and mix and blend very well until material is thoroughly mixed and streak free.

Product Application: HyperFLEX can be used as flexible membrane, a crack and joint filler, and as a base coat for rolled coats or broadcast floors. When being used to fill in joints and cracks, make a small batch first, then add fumed silica such as Aerosil or Cabosil until you achieve your desired thickness. In a mass form, the product cures very quickly, you have 10 minutes to install it. It's recommended to make small batches. When the product is being used as a flexible membrane, it's recommended to be installed at 90 sq.ft. per gallon. Because this product cures fast and work time is limited, it's recommended to coat smaller sections at a time. The ideal method of installation is to immediately pour out the ribbon of material, use a squeegee to squeegee out the product, then have another installer immediately following to back roll. This product can be applied using a knotted, or serrated squeegee, then back rolled with a 3/4" nap roller to maintain appropriate thickness. When using HyperFLEX as a base coat for a full broadcast system, once the product has been squeegeed and back rolled, immediately broadcast the aggregate into the floor. Again, in a mass form, the product cures very rapidly, once mixing is complete, pour the product onto the concrete to begin the installation process. Maintain temperatures within the recommended ranges during the application and curing process. It is best to maintain a wet edge to avoid roller marks.

Recoat or Topcoating: Installing multiple coats of this product is acceptable. If recoating this product, be sure that the product is fully cured before recoating. Refer to the cure schedule as a guideline to follow, however it is best to test the coating before recoating or topcoating. This is done by pressing your thumb on the coating to ensure a fingerprint impression is not visible. If there is no impression visible, then coating the floor can be done. Note, colder temperatures require longer cure times before product can be recoated. Prior to coating the floor, make sure there are no contaminants exist. If contaminants or a blush exists, remove with a standard detergent cleaner and ensure floor is clean and dry prior to coating. It is recommended to degloss the previous floor prior to coating to ensure a trouble free bond.

Cleanup, Floor Cleaning and Restrictions: Use solvents for cleanup. When cleaning the floor, CAUTION! Some cleaners may affect the color of the installed floor. Test each cleaner used in a small area, ensuring no damage occurs. Restrict the use of the floor to light traffic and non-harsh chemicals until the floor is fully cured, refer to the cure schedule. Allow the floor to remain completely dry during the curing process.

Warranty

Floorguard Products® warrants that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine suitability of our product for your particular purpose. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR

PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.